

**Technical note** Electrochemical screening of organic inhibitors for corrosion of UNS N0400 in saturated monoethanolamine solution

A. Al-Hashem, J. A. Carew, and A. Hasan	310
<b>Bengough Medal</b>	2
<b>Book reviews</b>	106, 246
<b>Conference reports</b>	
Eurocorr '98	23, 99
Application of electrochemical techniques to organic coatings	104
Advances in corrosion protection by organic coatings	243
Corrosion metal loss measurement for oil and gas industries	4
Corrosion news and views	1, 81, 153, 225
Cost of corrosion revisited	1
Electroceramic coating boosts light metal properties	156
Forthcoming corrosion events	15, 90, 162, 235
Oxidation resistant coatings for molybdenum electrodes developed at the Colorado School of Mines	13
Standards news	20, 95, 168, 241
US Air Force uses SQUIDS as aid to corrosion prediction	227

## British Corrosion Journal

## Author index 1999

F. M. Abd El Wahab <i>see</i> H. A. El Shayeb	37, 145	H. A. El Shayeb, F. M. Abd El Wahab, and S. Zein	
S. M. L. Agostinho <i>see</i> L. De Micheli	67	Effect of some phenols on corrosion of Al, Cu, and	
M. Ajmal, J. Rawat, and M. A. Quraishi	220	Al-Cu alloys in NaOH solutions	145
Thioamides as novel class of corrosion inhibitors		M. Erbil <i>see</i> I. Dehri	299
M. Alagar, I. Mohammed Bilal, and V. Mohan		W. S. Ernst <i>see</i> W. Skinner	79
Silicate esters with additives as temporary protectives			
on steel surfaces	75	S. E. Filippakis <i>see</i> I. Kotzamanidi	285
A. Al-Hashem, J. A. Carew, and A. Hasan		R. Francis	
Electrochemical screening of organic inhibitors for		Coupling of superduplex stainless steel and cast	
corrosion of UNS N0400 in saturated monoethanol-		nickel-aluminium bronze in sea water	139
amine solution		A. Frignani, C. Monticelli, and G. Trabanelli	
G. C. Allen <i>see</i> L. Black	310	Influence of acetylenic derivatives on corrosion of	
F. Al-Sabti <i>see</i> H. M. Shalaby	192	chromium and chromium containing steels in hot	
A. H. P. Andrade <i>see</i> L. De Micheli	292	acid solutions	214
L. Aries <i>see</i> S. El Hajjaji	67	C. Y. Fu, J. S. Zheng, J. M. Zhao, and W. D. Xu	
C. A. Barbosa <i>see</i> L. De Micheli	273	Corrosion induced failures of oil tubulars from gas	
A. M. Beccaria <i>see</i> F. Gnecco	67	wells in Zhongyuan oil field	71
A. Ben Bachir <i>see</i> S. El Hajjaji	57		
L. Black and G. C. Allen	273	B. Gaur and H. S. Srinivasan	
Nature of lead patination		Corrosion of metals and alloys in methane sulphonic	
N. R. Buenfeld <i>see</i> A. M. Hassanein		acid	63
J. A. Carew <i>see</i> A. Al-Hashem		G. K. Glass <i>see</i> A. M. Hassanein	254
Y. F. Cheng, M. Wilmott, and J. L. Luo		F. Gnecco and A. M. Beccaria	
Transition criterion of metastable pitting towards		Corrosion behaviour of Al-Si/SiC composite in sea	
stability for carbon steel in chloride solutions		water	57
I. Dehri and M. Erbil		A. Hasan <i>see</i> A. Al-Hashem	310
Application of semi-ellipse model in impedance studies		A. A. Hasan <i>see</i> H. M. Shalaby	292
of corrosion of 63-37 brass in neutral aqueous solutions		A. M. Hassanein, G. K. Glass, and N. R. Buenfeld	
containing sulphate, ammonium, and chloride ions		Effect of intermittent cathodic protection on chloride	
L. De Micheli, A. H. P. Andrade, C. A. Barbosa, and	299	and hydroxyl concentration profiles in reinforced	
S. M. L. Agostinho	67	concrete	254
Electrochemical studies of 254SMO stainless steel in		A. Hermas	
comparison with 316L stainless steel and Hastelloy		Polarisation of low phosphorus AISI 304 stainless	
C276 in phosphoric acid media in absence and pres-		steel in $H_2SO_4$ containing arsenite	132
ence of chloride ions		M. G. Hocking <i>see</i> P. S. Sidky	171
Ts. Dobrev <i>see</i> M. Petrova	198	T. Hodgkiss <i>see</i> A. Neville	262
F. du Prez <i>see</i> W. Skinner	151		
R. S. Dutta and R. Tewari	201	N. C. Jackson <i>see</i> M. J. Robinson	45
Microstructural and corrosion aspects of alloy 690		M.-Z. Joe and D.-R. Kim	
S. El Hajjaji, M.-T. Maurette, E. Puech-Costes, A. Ben		Characterisation of sensitisation of type 409 stainless	
Bachir, and L. Aries		steel	210
Optimisation of conversion coatings in phosphoric		E. Johansson and C. Leygraf	
acid media using statistical experimental designs		Corrosion measurements of silver and copper in	
H. A. El Shayeb, F. M. Abd El Wahab, and S. Zein	273	indoor atmospheres using different evaluation tech-	
El Abedin		niques	27
Electrochemical behaviour of Al, Cu, and Al-Cu	37	G. D. Kanas <i>see</i> I. Kotzamanidi	285
alloys in NaOH and HCl solutions		D.-R. Kim <i>see</i> M.-Z. Joe	210
		C. Kollia <i>see</i> I. Kotzamanidi	285

I. Kotzamanidi, Em. Sarris, P. Vassiliou, C. Kollia, G. D. Kanias, G. J. Varoufakis, and S. E. Filippakis Effect of heat treatment in reducing plasma environments on chloride ion removal and corrosion of oxidised steel artefacts	285	P. S. Sidky and M. G. Hocking Review of inorganic coatings and coating processes for reducing wear and corrosion	171
N. Kouloumbi, G. M. Tsangaris, S. T. Kyvelidis, and G. C. Psarras Composite coatings and their performance in corrosive environment	267	W. Skinner and W. S. Ernst Influence of flow conditions on corrosion characteristics of mild steel rotating cylinder in solutions of fatty acids	79
S. Król Influence of pores on high temperature oxidation of titanium and Ti-3Cu alloy	206	W. Skinner, F. du Preez, and E. Vuorinen Evaluation of vapour phase corrosion inhibitors	151
S. T. Kyvelidis <i>see</i> N. Kouloumbi	267	E. Slavcheva, B. Shone, and A. Turnbull Review of naphthenic acid corrosion in oil refining	125
C. Leygraf <i>see</i> E. Johansson	27	L. Smith Control of corrosion in oil and gas production tubing	247
M. Luja <i>see</i> L. Veleva	34	E. F. C. Somerscales Fundamentals of corrosion fouling	109
J. L. Luo <i>see</i> Y. F. Cheng	280	H. S. Srinivasan <i>see</i> B. Gaur	63
M.-T. Maurette <i>see</i> S. El Hajjaji	273	Y. Stefanov <i>see</i> M. Petrova	198
I. Mohammed Bilal <i>see</i> M. Alagar	75	R. Tewari <i>see</i> R. S. Dutta	201
V. Mohan <i>see</i> M. Alagar	75	S. Tiwari and M. Saxena Use of fly ash in high performance industrial coatings	184
C. Monticelli <i>see</i> A. Frignani	214	G. Trabanelli <i>see</i> A. Frignani	214
A. Neville and T. Hodgkiss Towards novel ceramic base coatings for corrosive wear applications	262	G. M. Tsangaris <i>see</i> N. Kouloumbi	267
Z. Noncheva <i>see</i> M. Petrova	198	A. Turnbull <i>see</i> E. Slavcheva	125
M. Petrova, Y. Stefanov, Z. Noncheva, Ts. Dobrev, and St. Rashkov Electrochemical behaviour of lead alloys as anodes in zinc electrowinning	198	G. J. Varoufakis <i>see</i> I. Kotzamanidi	285
G. C. Psarras <i>see</i> N. Kouloumbi	267	P. Vassiliou <i>see</i> I. Kotzamanidi	285
E. Puech-Costes <i>see</i> S. El Hajjaji	273	L. Veleva and M. Luja Scanning electron microscopy characterisation of copper corrosion products (patina) formed in tropical humid climate	34
M. A. Quraishi <i>see</i> M. Ajmal	220	E. Vuorinen <i>see</i> W. Skinner	151
St. Rashkov <i>see</i> M. Petrova	198	R. Walker Oxidation behaviour up to 550°C of tin bronze pre-treated with benzotriazole	304
J. Rawat <i>see</i> M. Ajmal	220	M. Wilmott <i>see</i> Y. F. Cheng	280
M. J. Robinson and N. C. Jackson Exfoliation corrosion of high strength Al-Cu-Mg alloys: effect of grain structure	45	W. D. Xu <i>see</i> C. Y. Fu	71
Em. Sarris <i>see</i> I. Kotzamanidi	285	P. N. S. Yadav Molecular structure of heterocyclic compounds and their inhibitive action for corrosion of grade 1100 aluminium in dilute HCl	51
M. Saxena <i>see</i> S. Tiwari	184	S. Zein El Abedin <i>see</i> H. A. El Shayeb	37, 145
H. M. Shalaby, A. A. Hasan, and F. Al-Sabti Effects of inorganic sulphide and ammonia on microbial corrosion behaviour of 70Cu-30Ni alloy in sea water	292	J. M. Zhao <i>see</i> C. Y. Fu	71
B. Shone <i>see</i> E. Slavcheva	125	J. S. Zheng <i>see</i> C. Y. Fu	71

## British Corrosion Journal

- Abrasion**  
Use of fly ash in high performance industrial coatings  
Tiwari and Saxena
- Acetylenic alcohols**  
Influence of acetylenic derivatives on corrosion of chromium and chromium containing steels in hot acid solutions Frignani *et al.*
- Activation energy**  
Molecular structure of heterocyclic compounds and their inhibitive action for corrosion of grade 1100 aluminium in dilute HCl Yadav
- Adsorption**  
Molecular structure of heterocyclic compounds and their inhibitive action for corrosion of grade 1100 aluminium in dilute HCl Yadav
- Alloy 690**  
Microstructural and corrosion aspects of alloy 690 Dutta and Tewari

## Subject index 1999

184	Alumina Optimisation of conversion coatings in phosphoric acid media using statistical experimental designs El Hajjaji <i>et al.</i>	273
214	Aluminium and aluminium alloys Electrochemical behaviour of Al, Cu, and Al-Cu alloys in NaOH and HCl solutions El Shayeb <i>et al.</i> Exfoliation corrosion of high strength Al-Cu-Mg alloys: effect of grain structure Robinson and Jackson	37
51	Molecular structure of heterocyclic compounds and their inhibitive action for corrosion of grade 1100 aluminium in dilute HCl Yadav	45
51	Molecular structure of heterocyclic compounds and their inhibitive action for corrosion of grade 1100 aluminium in dilute HCl Yadav	51
51	Effect of some phenols on corrosion of Al, Cu, and Al-Cu alloys in NaOH solutions El Shayeb <i>et al.</i>	145
51	Aluminium composites Corrosion behaviour of Al-Si/SiC composite in sea water Gnecco and Beccaria	57
201	Aluminium-copper alloys Electrochemical behaviour of Al, Cu, and Al-Cu alloys in NaOH and HCl solutions El Shayeb <i>et al.</i>	37

Effect of some phenols on corrosion of Al, Cu, and Al-Cu alloys in NaOH solutions El Shayeb <i>et al.</i>	145	Conversion coatings Optimisation of conversion coatings in phosphoric acid media using statistical experimental designs El Hajjaji <i>et al.</i>	273
<b>Arsenic</b> Polarisation of low phosphorus AISI 304 stainless steel in H <sub>2</sub> SO <sub>4</sub> containing arsenite Hermas	132	<b>Copper</b> Corrosion measurements of silver and copper in indoor atmospheres using different evaluation techniques Johansson and Leygraf	27
<b>Atmospheric corrosion</b> Corrosion measurements of silver and copper in indoor atmospheres using different evaluation techniques Johansson and Leygraf	27	Scanning electron microscopy characterisation of copper corrosion products (patina) formed in tropical humid climate Veleva and Luja	34
<b>Atmospheric pollution hydrocerussite</b> Nature of lead patination Black and Allen	192	Electrochemical behaviour of Al, Cu, and Al-Cu alloys in NaOH and HCl solutions El Shayeb <i>et al.</i>	37
<b>Benzotriazole</b> Oxidation behaviour up to 550°C of tin bronze pre-treated with benzotriazole Walker	304	Effect of some phenols on corrosion of Al, Cu, and Al-Cu alloys in NaOH solutions El Shayeb <i>et al.</i>	145
<b>Brass</b> Application of semi-ellipse model in impedance studies of corrosion of 63-37 brass in neutral aqueous solutions containing sulphate, ammonium, and chloride ions Dehri and Erbil		<b>Copper-nickel alloys</b> Effects of inorganic sulphide and ammonia on microbial corrosion behaviour of 70Cu-30Ni alloy in sea water Shalaby <i>et al.</i>	292
<b>Carbon dioxide</b> Corrosion induced failures of oil tubulars from gas wells in Zhongyuan oil field Fu <i>et al.</i>	299	<b>Corrosion fouling</b> Fundamentals of corrosion fouling Somerscales	109
<b>Cathodic protection</b> Effect of intermittent cathodic protection on chloride and hydroxyl concentration profiles in reinforced concrete Hassanein <i>et al.</i>	71	<b>Corrosion resistant alloys</b> Control of corrosion in oil and gas production tubing Smith	247
<b>Cathodic reduction</b> Corrosion measurements of silver and copper in indoor atmospheres using different evaluation techniques Johansson and Leygraf	27	<b>Crude oils</b> Review of naphthenic acid corrosion in oil refining Slavcheva <i>et al.</i>	125
<b>Cement</b> Effect of intermittent cathodic protection on chloride and hydroxyl concentration profiles in reinforced concrete Hassanein <i>et al.</i>		<b>Diffusion</b> Influence of pores on high temperature oxidation of titanium and Ti-3Cu alloy Król	206
<b>Cermet</b> Towards novel ceramic base coatings for corrosive wear applications Neville and Hodgkiss	254	<b>Electrochemical behaviour</b> Electrochemical behaviour of Al, Cu, and Al-Cu alloys in NaOH and HCl solutions El Shayeb <i>et al.</i>	37
<b>Chlorides</b> Effect of intermittent cathodic protection on chloride and hydroxyl concentration profiles in reinforced concrete Hassanein <i>et al.</i>	262	<b>Electrochemical impedance</b> Corrosion behaviour of Al-Si/SiC composite in sea water Gnecco and Beccaria	57
Effect of heat treatment in reducing plasma environments on chloride ion removal and corrosion of oxidised steel artefacts Kotzamanidi <i>et al.</i>	254	Thioamidines as novel class of corrosion inhibitors Ajmal <i>et al.</i>	220
<b>Chromium and chromium alloys</b> Influence of acetylenic derivatives on corrosion of chromium and chromium containing steels in hot acid solutions Frignani <i>et al.</i>	285	Composite coatings and their performance in corrosive environment Kouloumbi <i>et al.</i>	267
<b>Chromium carbides</b> Microstructural and corrosion aspects of alloy 690 Dutta and Tewari	214	Application of semi-ellipse model in impedance studies of corrosion of 63-37 brass in neutral aqueous solutions containing sulphate, ammonium, and chloride ions Dehri and Erbil	299
<b>Chromium carbonitride</b> Characterisation of sensitisation of type 409 stainless steel Joe and Kim	201	Electrochemical screening of organic inhibitors for corrosion of UNS N04040 in saturated monoethanolamine solution Al-Hashem <i>et al.</i>	310
<b>Coatings</b> Review of inorganic coatings and coating processes for reducing wear and corrosion Sidky and Hocking	210	<b>Electrochemical measurement</b> Effects of inorganic sulphide and ammonia on microbial corrosion behaviour of 70Cu-30Ni alloy in sea water Shalaby <i>et al.</i>	292
Use of fly ash in high performance industrial coatings Tiwari and Saxena	171	<b>Electrochemical noise</b> Transition criterion of metastable pitting towards stability for carbon steel in chloride solutions Cheng <i>et al.</i>	280
Towards novel ceramic base coatings for corrosive wear applications Neville and Hodgkiss	184	<b>Electrolytic deposits</b> Optimisation of conversion coatings in phosphoric acid media using statistical experimental designs El Hajjaji <i>et al.</i>	273
<b>Cobalt</b> Electrochemical behaviour of lead alloys as anodes in zinc electrowinning Petrova <i>et al.</i>	262	<b>Electrowinning</b> Electrochemical behaviour of lead alloys as anodes in zinc electrowinning Petrova <i>et al.</i>	198
<b>Composite coatings</b> Composite coatings and their performance in corrosive environment Kouloumbi <i>et al.</i>	198	<b>Enamels</b> Use of fly ash in high performance industrial coatings Tiwari and Saxena	184
<b>Concrete</b> Effect of intermittent cathodic protection on chloride and hydroxyl concentration profiles in reinforced concrete Hassanein <i>et al.</i>	267	<b>Environments</b> <i>Acids</i> Influence of acetylenic derivatives on corrosion of chromium and chromium containing steels in hot acid solutions Frignani <i>et al.</i>	214
	254	Thioamidines as novel class of corrosion inhibitors Ajmal <i>et al.</i>	220

<b>Ammonium</b>		
Application of semi-ellipse model in impedance studies of corrosion of 63–37 brass in neutral aqueous solutions containing sulphate, ammonium, and chloride ions Dehri and Erbil	299	
<b>Chlorides</b>		
Electrochemical studies of 254SMO stainless steel in comparison with 316L stainless steel and Hastelloy C276 in phosphoric acid media in absence and presence of chloride ions De Michelis <i>et al.</i>	67	
Application of semi-ellipse model in impedance studies of corrosion of 63–37 brass in neutral aqueous solutions containing sulphate, ammonium, and chloride ions Dehri and Erbil	299	
<b>Fatty acids</b>		
Influence of flow conditions on corrosion characteristics of mild steel rotating cylinder in solutions of fatty acids Skinner and Ernst	79	
<b>Phosphoric acid</b>		
Electrochemical studies of 254SMO stainless steel in comparison with 316L stainless steel and Hastelloy C276 in phosphoric acid media in absence and presence of chloride ions De Michelis <i>et al.</i>	67	
Optimisation of conversion coatings in phosphoric acid media using statistical experimental designs El Hajjaji <i>et al.</i>	273	
<b>Reducing plasma</b>		
Effect of heat treatment in reducing plasma environments on chloride ion removal and corrosion of oxidised steel artefacts Kotzamanidi <i>et al.</i>	57	
<b>Sea water</b>		
Corrosion behaviour of Al–Si/SiC composite in sea water Gnecco and Beccaria	75	
Silicate esters with additives as temporary protectives on steel surfaces Alagar <i>et al.</i>	139	
Coupling of superduplex stainless steel and cast nickel-aluminium bronze in sea water Francis	262	
Towards novel ceramic base coatings for corrosive wear applications Neville and Hodgkiss	292	
Effects of inorganic sulphide and ammonia on microbial corrosion behaviour of 70Cu–30Ni alloy in sea water Shalaby <i>et al.</i>	145	
<b>Sodium hydroxide</b>		
Effect of some phenols on corrosion of Al, Cu, and Al–Cu alloys in NaOH solutions El Shayeb <i>et al.</i>	299	
<b>Equivalent electrical circuits</b>		
Application of semi-ellipse model in impedance studies of corrosion of 63–37 brass in neutral aqueous solutions containing sulphate, ammonium, and chloride ions Dehri and Erbil	45	
<b>Exfoliation</b>		
Exfoliation corrosion of high strength Al–Cu–Mg alloys: effect of grain structure Robinson and Jackson	184	
<b>Extenders</b>		
Use of fly ash in high performance industrial coatings Tiwari and Saxena	79	
<b>Flow conditions</b>		
Influence of flow conditions on corrosion characteristics of mild steel rotating cylinder in solutions of fatty acids Skinner and Ernst	184	
<b>Fly ash</b>		
Use of fly ash in high performance industrial coatings Tiwari and Saxena	139	
<b>Galvanic corrosion</b>		
Coupling of superduplex stainless steel and cast nickel-aluminium bronze in sea water Francis	71	
<b>Gas wells</b>		
Corrosion induced failures of oil tubulars from gas wells in Zhongyuan oil field Fu <i>et al.</i>	45	
<b>Grain structure</b>		
Exfoliation corrosion of high strength Al–Cu–Mg alloys: effect of grain structure Robinson and Jackson	285	
<b>Heat treatment</b>		
Effect of heat treatment in reducing plasma environments on chloride ion removal and corrosion of oxidised steel artefacts Kotzamanidi <i>et al.</i>	299	
<b>Heterocyclic compounds</b>		
Molecular structure of heterocyclic compounds and their inhibitive action for corrosion of grade 1100 aluminium in dilute HCl Yadav	67	
<b>Hydrogen adsorption</b>		
Polarisation of low phosphorus AISI 304 stainless steel in H <sub>2</sub> SO <sub>4</sub> containing arsenite Hermas	139	
<b>Hydrogenation</b>		
Polarisation of low phosphorus AISI 304 stainless steel in H <sub>2</sub> SO <sub>4</sub> containing arsenite Hermas	139	
<b>Inhibitors and inhibition</b>		
Molecular structure of heterocyclic compounds and their inhibitive action for corrosion of grade 1100 aluminium in dilute HCl Yadav	79	
Corrosion of metals and alloys in methane sulphonic acid Gaur and Srinivasan	285	
Corrosion induced failures of oil tubulars from gas wells in Zhongyuan oil field Fu <i>et al.</i>	139	
Silicate esters with additives as temporary protectives on steel surfaces Alagar <i>et al.</i>	299	
Evaluation of vapour phase corrosion inhibitors Skinner <i>et al.</i>	299	
Influence of acetylenic derivatives on corrosion of chromium and chromium containing steels in hot acid solutions Frignani <i>et al.</i>	299	
Thioamidines as novel class of corrosion inhibitors Ajmal <i>et al.</i>	299	
Oxidation behaviour up to 550°C of tin bronze pre-treated with benzotriazole Walker	299	
Electrochemical screening of organic inhibitors for corrosion of UNS N0400 in saturated monoethanolamine solution Al-Hashem <i>et al.</i>	299	
<b>Inorganic coatings</b>		
Review of inorganic coatings and coating processes for reducing wear and corrosion Sidky and Hocking	299	
<b>Interfaces</b>		
Microstructural and corrosion aspects of alloy 690 Dutta and Tewari	299	
<b>Intergranular corrosion</b>		
Characterisation of sensitisation of type 409 stainless steel Joe and Kim	299	
<b>Lead alloys</b>		
Electrochemical behaviour of lead alloys as anodes in zinc electrowinning Petrova <i>et al.</i>	299	
<b>Lead patination</b>		
Nature of lead patination Black and Allen	299	
<b>Lead sulphate</b>		
Nature of lead patination Black and Allen	299	
<b>Lead sulphite</b>		
Nature of lead patination Black and Allen	299	
<b>Mass increase</b>		
Corrosion measurements of silver and copper in indoor atmospheres using different evaluation techniques Johansson and Leygraf	299	
<b>Mass loss</b>		
Corrosion measurements of silver and copper in indoor atmospheres using different evaluation techniques Johansson and Leygraf	299	
<b>Material selection</b>		
Control of corrosion in oil and gas production tubing Smith	299	
<b>Methane sulphonic acid</b>		
Corrosion of metals and alloys in methane sulphonic acid Gaur and Srinivasan	299	
<b>Microbial corrosion</b>		
Effects of inorganic sulphide and ammonia on microbial corrosion behaviour of 70Cu–30Ni alloy in sea water Shalaby <i>et al.</i>	299	
<b>Modelling</b>		
Fundamentals of corrosion fouling Somerscales	299	

Monoethanolamine solutions		
Electrochemical screening of organic inhibitors for corrosion of UNS N0400 in saturated monoethanolamine solution Al-Hashem <i>et al.</i>	310	63
Naphthenic acid		
Review of naphthenic acid corrosion in oil refining Slavcheva <i>et al.</i>	125	27
Nickel alloys		
Corrosion of metals and alloys in methane sulphonic acid Gaur and Srinivasan	63	
Electrochemical screening of organic inhibitors for corrosion of UNS N0400 in saturated monoethanolamine solution Al-Hashem <i>et al.</i>	310	34
Nickel-aluminium bronze		
Coupling of superduplex stainless steel and cast nickel-aluminium bronze in sea water Francis	139	132
Oil and gas production		
Control of corrosion in oil and gas production tubing Smith	247	210
Oil pipes		
Corrosion induced failures of oil tubulars from gas wells in Zhongyuan oil field Fu <i>et al.</i>	71	75
Oil refining		
Review of naphthenic acid corrosion in oil refining Slavcheva <i>et al.</i>	125	27
Optimisation		
Optimisation of conversion coatings in phosphoric acid media using statistical experimental designs El Hajjaji <i>et al.</i>	273	280
Oxidation		
Effect of heat treatment in reducing plasma environments on chloride ion removal and corrosion of oxidised steel artefacts Kotzamanidi <i>et al.</i>	285	139
Oxidation behaviour up to 550°C of tin bronze pre-treated with benzotriazole Walker	304	75
Oxidation kinetics		
Influence of pores on high temperature oxidation of titanium and Ti-3Cu alloy Król	206	79
Oxygenated water		
Fundamentals of corrosion fouling Somerscales	109	151
Passivation		
Microstructural and corrosion aspects of alloy 690 Dutta and Tewari	201	63
Phenols		
Effect of some phenols on corrosion of Al, Cu, and Al-Cu alloys in NaOH solutions El Shayeb <i>et al.</i>	145	67
Pit stabilisation		
Transition criterion of metastable pitting towards stability for carbon steel in chloride solutions Cheng <i>et al.</i>	280	132
Pitting		
Microstructural and corrosion aspects of alloy 690 Dutta and Tewari	201	292
Transition criterion of metastable pitting towards stability for carbon steel in chloride solutions Cheng <i>et al.</i>	280	75
Polarisation		
Polarisation of low phosphorus AISI 304 stainless steel in H <sub>2</sub> SO <sub>4</sub> containing arsenite Hermas	132	262
Pores		
Influence of pores on high temperature oxidation of titanium and Ti-3Cu alloy Król	206	220
Potentiodynamic polarisation		
Thioamidines as novel class of corrosion inhibitors Ajmal <i>et al.</i>	220	210
Primers		
Use of fly ash in high performance industrial coatings Tiwari and Saxena	184	304
Raman spectroscopy		
Nature of lead patination Black and Allen	192	vii
Refractory metals		
Corrosion of metals and alloys in methane sulphonic acid Gaur and Srinivasan	310	
Resistance measurements		
Corrosion measurements of silver and copper in indoor atmospheres using different evaluation techniques Johansson and Leygraf	125	
Scanning electron microscopy		
Scanning electron microscopy characterisation of copper corrosion products (patina) formed in tropical humid climate Veleva and Luja	63	
Second anodic current maximum		
Polarisation of low phosphorus AISI 304 stainless steel in H <sub>2</sub> SO <sub>4</sub> containing arsenite Hermas	310	
Sensitisation		
Characterisation of sensitisation of type 409 stainless steel Joe and Kim	139	
Silicate esters		
Silicate esters with additives as temporary protectives on steel surfaces Alagar <i>et al.</i>	71	
Silver		
Corrosion measurements of silver and copper in indoor atmospheres using different evaluation techniques Johansson and Leygraf	125	
Steels		
Carbon steels		
Transition criterion of metastable pitting towards stability for carbon steel in chloride solutions Cheng <i>et al.</i>	273	
Duplex stainless steels		
Coupling of superduplex stainless steel and cast nickel-aluminium bronze in sea water Francis	285	
Mild steel		
Silicate esters with additives as temporary protectives on steel surfaces Alagar <i>et al.</i>	304	
Influence of flow conditions on corrosion characteristics of mild steel rotating cylinder in solutions of fatty acids Skinner and Ernst	206	
Evaluation of vapour phase corrosion inhibitors Skinner <i>et al.</i>	109	
Stainless steels		
Corrosion of metals and alloys in methane sulphonic acid Gaur and Srinivasan	201	
Electrochemical studies of 254SMO stainless steel in comparison with 316L stainless steel and Hastelloy C276 in phosphoric acid media in absence and presence of chloride ions De Micheli <i>et al.</i>	145	
Polarisation of low phosphorus AISI 304 stainless steel in H <sub>2</sub> SO <sub>4</sub> containing arsenite Hermas	280	
Type 409 stainless steel		
Characterisation of sensitisation of type 409 stainless steel Joe and Kim	280	
Sulphate reducing bacteria		
Effects of inorganic sulphide and ammonia on microbial corrosion behaviour of 70Cu-30Ni alloy in sea water Shalaby <i>et al.</i>	201	
Temporary protectives		
Silicate esters with additives as temporary protectives on steel surfaces Alagar <i>et al.</i>	280	
Thermal spraying		
Towards novel ceramic base coatings for corrosive wear applications Neville and Hodgkiss	132	
Thioamidines		
Thioamidines as novel class of corrosion inhibitors Ajmal <i>et al.</i>	206	
Time-temperature-sensitisation diagrams		
Characterisation of sensitisation of type 409 stainless steel Joe and Kim	220	
Tin bronze		
Oxidation behaviour up to 550°C of tin bronze pre-treated with benzotriazole Walker	184	

Titanium		
Influence of pores on high temperature oxidation of titanium and Ti-3Cu alloy	Król	
206	Tubing	
	Control of corrosion in oil and gas production tubing	Smith
		247
Titanium carbonitride		
Characterisation of sensitisation of type 409 stainless steel	Joe and Kim	
210	Vapour phase	
	Evaluation of vapour phase corrosion inhibitors	Skinner <i>et al.</i>
		151
Titanium nitrides		
Microstructural and corrosion aspects of alloy 690	Dutta and Tewari	
201	Wear	
	Review of inorganic coatings and coating processes for reducing wear and corrosion	Sidky and Hocking
		171
Tropical climates		
Scanning electron microscopy characterisation of copper corrosion products (patina) formed in tropical humid climate	Veleva and Luja	
34	Zinc	
	Electrochemical behaviour of lead alloys as anodes in zinc electrowinning	Petrova <i>et al.</i>
		198

